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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,405	01/18/2005	Christoph Klappenbach		2363

7590

12/11/2006

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103 East Neck Road
Huntington, NY 11743

EXAMINER

LE, DANG D

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 12/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/521,405

Applicant(s)

KLAPPENBACH ET AL.

Examiner

Dang D. Le

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1, 2 and 6-13 is/are rejected.
- 7) ☒ Claim(s) 3-5 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 January 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 9/06 & 1/05.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- ☐ Notice of Informal Patent Application
- ☐ Other: ____.

DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the inner wall in claim 11 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The abstract of the disclosure is objected to because it contains the word "comprised" at line 2. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 6, 10, 11, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Best et al. (5,828,147).

Regarding claim 1, Best shows an interconnection element for a multi-phase winding (8) that is comprised of coils (3) and belongs to an electric machine, in particular a brushless mini motor, having a support (4) made of insulating material and

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conducting strips (12) that are disposed on the support (4) and are for producing interconnections among the coils (3) wherein the electrical conducting strips are embodied in the form of bent wires (12).

Regarding claim 6, Best also shows in the course of the wires (12), bent segments (13a) being provided, which are for connecting the coil ends (7) of the coils (3) of the winding (8).

Regarding claim 10, Best also shows the stator.

Regarding claim 11, Best also shows the interconnection element being placed against one end surface of the stator body (top) and the fastening means provided on the support are comprised of bracing struts (Figure 13B, 19 of 18) that are disposed offset from one another around the circumference of the support and rest radially against the inner wall (defined by slot near 18) of the stator body with a frictional, nonpositive engagement.

Regarding claim 13, Best also shows the coils being embodied in the form of annular coils that are wound onto stator teeth, which protrude radially from a yoke ring of the stator body (Figure 5).

6. Claims 1, 6-8, 10, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Kondo et al. (5,900,687).

Regarding claims 1 and 6, Kondo et al. shows all of the limitations of the claimed invention in Figures 1 and 2.

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Regarding claim 7, Kondo also shows the bent segments (3b, 4b, 5b) being routed out of the channels (7a, 7b), partly by being routed over the channel rims and partly by being routed radially out (Figure 1) lateral channel openings.

Regarding claim 8, Kondo also shows the support (7) being provided with a terminal strip (6) that has connecting terminals (6b); one wire end of each of the wires is attached to a connecting terminal (for star connection).

Regarding claim 10, Kondo also shows the stator.

Regarding claim 12, Kondo also shows the coil ends of the coils being placed against connecting pins (9, Figure 7), which protrude axially from the end surface of the stator body, and the connecting pins are attached to the bent segments in the wires of the interconnection element in an electrically conductive manner, preferably by being welded or soldered to them.

7. Claims 1, 2, 9, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Okazaki et al. (6,600,244).

Regarding claim 1, Okazaki et al. shows all of the limitations of the claimed invention in Figures 7 and 9.

Regarding claim 2, Okazaki et al. also shows the wires (7a, 8a, 9a) being contained in concentric channels, which are embodied in the support (20) and are offset from one another, partly in the radial direction (concentric), partly in the axial direction (one being deeper than the others).

Regarding claim 9, Okazaki et al. also shows the support (20) being embodied in the form of a circular plastic ring into which the channels are integrally formed (Figure 6).

Regarding claim 10, Okazaki et al. also shows the stator.

Allowable Subject Matter

8. Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the record of prior art does not show the interconnection element for a multiphase winding with the wires being fixed in the channels by means of two annular cover elements made of insulating material, which are placed against the top and bottom of the support and affixed to it as shown in claim 3. Claims 4 and 5 are dependent claims.

Information on How to Contact USPTO

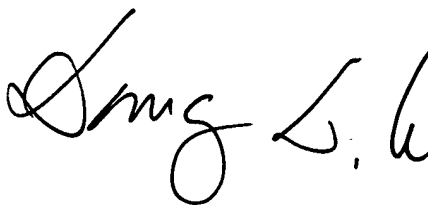
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D. Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

12/6/06

A handwritten signature in black ink, appearing to read "Ding L. H.", is written in a cursive style.

DANGLE
PRIMARY EX